HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3770, FAIZABAD (217) AND PARKHAW (218) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS

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Practically all iron-bearing minerals and other materials in a spectral library of minerals, vegetation, water, and other materials (Clark and others, 2007). Minerals were classified using the USGS data processing platform HyMap, version 2 (HyMap™ imaging spectrometer data, version 2: U.S. Geological Survey Data Series 787).

NOTES TO FIGURE
Main urban areas are color-coded: blue for unclassified areas, red for areas having wet soils. The version 2 map more accurately represents the mineral distributions and iron-bearing minerals and other materials (Kokaly and others, 2013). This version 2 map improved mineral identification. Minerals having slightly different compositions but similar spectral features were less easily discriminated; therefore, some classification was not possible. Information regarding the processing procedures is presented in King and others (2011) and Kokaly and others (2008). This map is one in a series of U.S. Geological Survey/Afghanistan Geological Survey digital surface materials maps of Afghanistan (Kokaly and others, 2008).

REFERENCES
King, T.V. V., Kokaly, R.F., Hoefen, T.M., and Livo, K.E., 2011, Surface materials map of quadrangle 3770, Faizabad (217) and Parkhaw (218) quadrangles, Afghanistan, showing iron-bearing minerals and other materials (Kokaly and others, 2008). This map is one in a series of U.S. Geological Survey/Afghanistan Geological Survey digital surface materials maps of Afghanistan (Kokaly and others, 2008).

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EXPLANATION OF MATERIALS CLASSES
Materials are listed based on quality of match with reference spectra; class may contain one or more minerals (Clark and others, 2007). Minerals were classified using the USGS data processing platform HyMap, version 2 (HyMap™ imaging spectrometer data, version 2: U.S. Geological Survey Data Series 787). The reflectance spectrum of each pixel of HyMap™ imaging spectrometer data was compared to the reference digital spectral library splib06a: U.S. Geological Survey Data Series 231. Minerals were classified using the USGS data processing platform HyMap, version 2 (HyMap™ imaging spectrometer data, version 2: U.S. Geological Survey Data Series 787). The reflectance spectrum of each pixel of HyMap™ imaging spectrometer data was compared to the reference digital spectral library splib06a: U.S. Geological Survey Data Series 231.

MAP 3152–B, 1 sheet, scale 1:1,100,000.

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